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Student Exploration: Seed Germination

Vocabulary: controlled experiment, germinate, hypothesis, mean, seed, trial, variable

Prior Knowledge Question (Do this BEFORE using the Gizmo.)

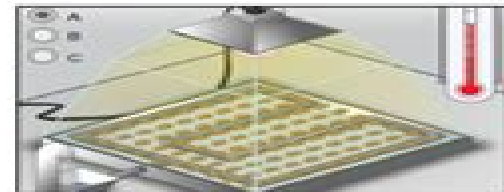
Plants that produce fruit or vegetables grow from **seeds**. Suppose you want to start a vegetable garden using seeds. How could you get the seeds to sprout?

We could get the seeds to sprout through germination, germination is a way to grow a seeds roots and essentially "wake it up" from it's dormant condition. By having the right amount of heat, moisture/water, and sometimes light, these seed could develop roots so that you can grow them in soil.

Gizmo Warm-up

Seeds are only able to sprout, or **germinate**, under the right conditions. The seeds of different species of plants need different amounts of light, temperatures, and moisture levels in order to germinate successfully.

In the Seed Germination Gizmo, you will perform a series of experiments to determine the best conditions for germinating three different types of seeds.



1. Look at the DESCRIPTION tab. How many seeds are in the germination chamber? 100
2. Click Play (▶), and observe the SIMULATION pane.
 - A. What happened over the simulated five-day period? During a five-day period, the seeds slowly start to sprout (started sprouting around the end of the 2nd day and beginning of 3rd day), at first only a few sprouted. Near the end of the 4th and 5th days, around 50% of the seeds sprouted.
 - B. How does the appearance of a seed on the SIMULATION pane change once the seed has sprouted? When the seed has sprouted, the seed's appears to have grown it's roots. These roots look to be growing upwards
 - C. How many seeds sprouted? After replaying the simulation, an average of 50% of seeds sprouted.

Teaching Guide Seed Germination Gizmo

WJ Hussar

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Teaching Guide Seed Germination Gizmo

1. Understanding the eBook Teaching Guide Seed Germination Gizmo
 - The Rise of Digital Reading Teaching Guide Seed Germination Gizmo
 - Advantages of eBooks Over Traditional Books
2. Identifying Teaching Guide Seed Germination Gizmo
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Teaching Guide Seed Germination Gizmo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Teaching Guide Seed Germination Gizmo
 - Personalized Recommendations
 - Teaching Guide Seed Germination Gizmo User Reviews and Ratings
 - Teaching Guide Seed Germination Gizmo and Bestseller Lists
5. Accessing Teaching Guide Seed Germination Gizmo Free and Paid eBooks
 - Teaching Guide Seed Germination Gizmo Public Domain eBooks
 - Teaching Guide Seed Germination Gizmo eBook Subscription Services
 - Teaching Guide Seed Germination Gizmo Budget-Friendly Options

6. Navigating Teaching Guide Seed Germination Gizmo eBook Formats
 - ePub, PDF, MOBI, and More
 - Teaching Guide Seed Germination Gizmo Compatibility with Devices
 - Teaching Guide Seed Germination Gizmo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Teaching Guide Seed Germination Gizmo
 - Highlighting and Note-Taking Teaching Guide Seed Germination Gizmo
 - Interactive Elements Teaching Guide Seed Germination Gizmo
8. Staying Engaged with Teaching Guide Seed Germination Gizmo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Teaching Guide Seed Germination Gizmo
9. Balancing eBooks and Physical Books Teaching Guide Seed Germination Gizmo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Teaching Guide Seed Germination Gizmo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Teaching Guide Seed Germination Gizmo
 - Setting Reading Goals Teaching Guide Seed Germination Gizmo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Teaching Guide Seed Germination Gizmo
 - Fact-Checking eBook Content of Teaching Guide Seed Germination Gizmo
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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